

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-3. (canceled).

4. (currently amended): A colored oligomer for providing color to a coating on a communications element, said colored oligomer comprising the reaction product of:

(a) an isocyanate end-capped oligomer; and

(b) a radiation-curable monomer having both (i) a reactive functionality which is reactive with isocyanate and (ii) ethylenic unsaturation,

wherein said colored oligomer is end-capped with radiation-curable groups by covalent linkages formed by reacting said reactive functionality (i) of said radiation-curable monomer (b) with an isocyanate moiety of said isocyanate end-capped oligomer (a),

and said isocyanate end-capped oligomer (a) is the reaction product of:

(c) at least one polyfunctional compound having at least two isocyanate reactive groups; and

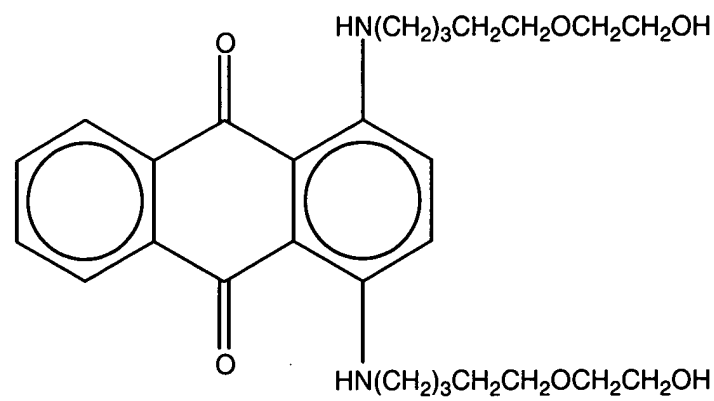
(d) at least one polyisocyanate,

said polyfunctional compound (c) comprising at least one dye having at least two isocyanate reactive functionalities,

wherein said dye is an anthraquinone dye, and said anthraquinone dye has the formula

AMENDMENT

U.S. Appln. No. 09/870,482



or said anthraquinone dye is selected from the group consisting of 1,5-bis((3-hydroxy-2,2-dimethylpropyl)amino)-9,10-anthracenedione; 2,2'-((9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis(thio))bis-benzoic acid, 2-hydroxyethyl ester; and 1,5-bis((2,2-dimethyl-3-hydroxypropyl)amino)-4,8-bis((4-methylphenyl)thio) anthraquinone.

5-10. (canceled).

11. (currently amended): The colored oligomer of ~~claim 5~~ claim 4, wherein said anthraquinone dye is 1,5-bis((2,2-dimethyl-3-hydroxypropyl)amino)-4,8-bis((4-methylphenyl)thio) anthraquinone.

12. (original): The colored oligomer of claim 4, wherein a (meth)acrylic group represents the ethylenic unsaturation (ii) in the radiation curable monomer (b).

13. (original): A photocurable resin composition for forming a colored, cured coating on an optical fiber, said resin composition comprising:

- (e) at least one (meth)acrylate end-capped urethane oligomer;
- (f) at least one photoinitiator;
- (g) at least one reactive diluent; and
- (h) at least one colored oligomer according to claim 4.

AMENDMENT

U.S. Appln. No. 09/870,482

14. (original): An optical fiber comprising a colored, cured coating, said colored, cured coating having been formed from the photocurable resin composition of claim 13.

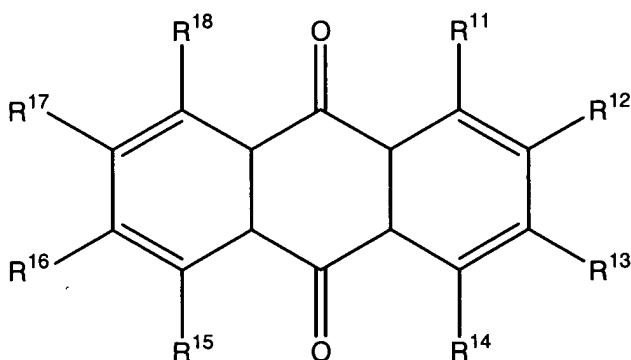
15. (currently amended): A reactive anthraquinone dye for providing color to a coating on an optical fiber, said reactive anthraquinone dye comprising an anthraquinone core group with at least one substituent comprising a radiation-curable group,

wherein said radiation-curable group is an ethylenically unsaturated group or an epoxy group.

16. (canceled).

17. (original): The reactive anthraquinone dye of claim 15, wherein said radiation curable group is a (meth)acrylic group.

18. (currently amended): The reactive anthraquinone dye of claim 15, wherein said reactive anthraquinone dye has the following formula:



wherein R groups R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ are each independently selected from the group consisting of hydrogen, amino, hydroxy, halogen, nitro, carboxylated alkali metal, sulfated alkali metal and a hydrocarbyl group optionally containing one or more heteroatoms,

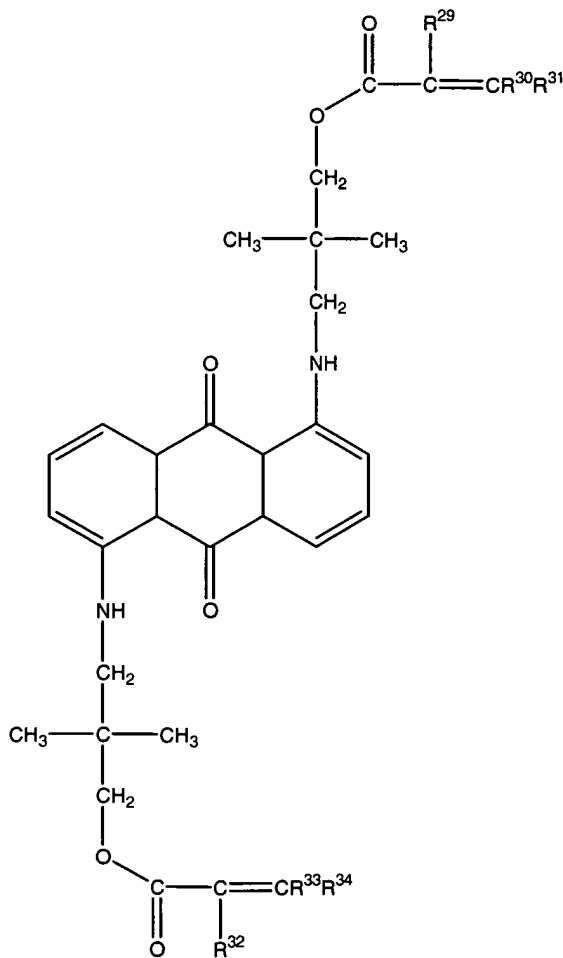
AMENDMENT

U.S. Appln. No. 09/870,482

provided that at least one of R groups R^{11} through R^{18} ~~have~~ has at least one ethylenically unsaturated radiation-curable functionality.

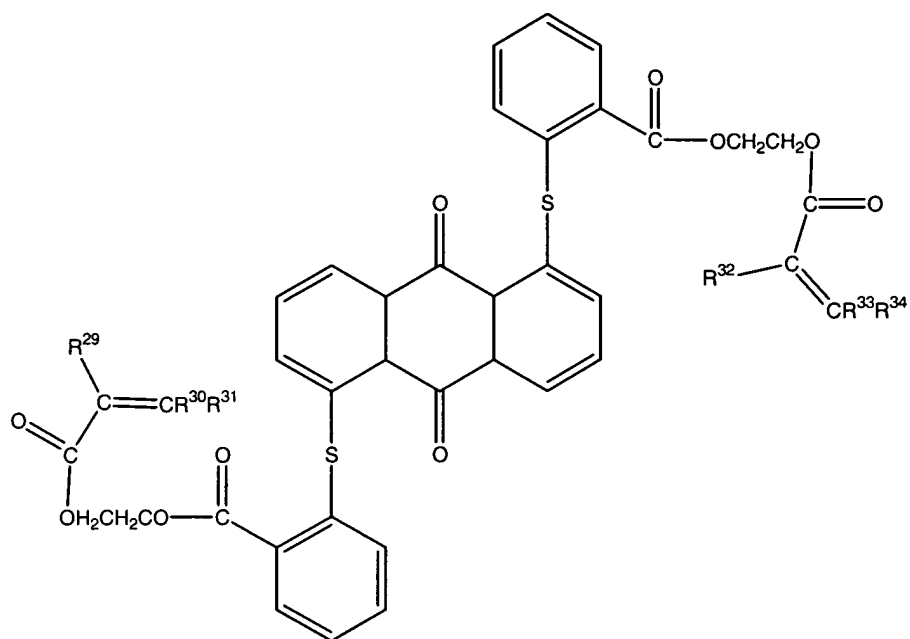
19. (original): The reactive anthraquinone dye of claim 18, wherein one or two of said R groups R^{11} through R^{18} have a (meth)acrylic functionality and at least four of said R groups R^{11} through R^{18} are hydrogen.

20. (original): The reactive anthraquinone dye of claim 18, wherein the reactive anthraquinone dye has one of the following formulas:



AMENDMENT

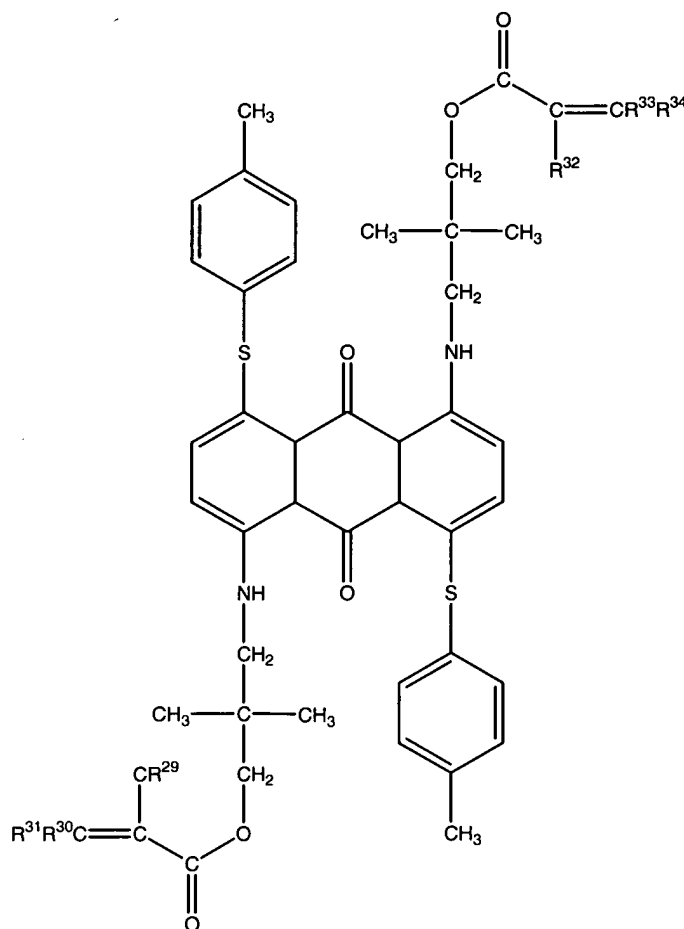
U.S. Appln. No. 09/870,482



, or

AMENDMENT

U.S. Appln. No. 09/870,482



wherein R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , and R^{34} are the same or different and are independently hydrogen or a C_1 to C_6 alkyl optionally substituted with one or more substituents selected from the group consisting of -OH, -NH₂, -SH, -NO₂, -CN and halogen.

21. (original): A photocurable resin composition for forming a colored, cured coating on an optical fiber, said resin composition comprising:

- (a) at least one (meth)acrylate end capped urethane oligomer;
- (b) at least one photoinitiator;
- (c) at least one reactive diluent; and
- (d) at least one reactive anthraquinone dye according to claim 18.

AMENDMENT

U.S. Appln. No. 09/870,482

22. (original): An optical fiber comprising a colored, cured coating, said colored, cured coating having been formed from the photocurable resin composition of claim 21.